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Amendments to the Claims:

This listing of clams will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently Amended): A method for producing a recombinant glycoprotein in a

unicellular or filamentous fungus non human eukaryotic host cell that expresses a glycosidase activity, the

method comprising the step of diminishing or depleting the activity of one or more enzymes in the host cell

that transfers a sugar residue to the 1,6 arm of a lipid-linked oligosaccharide structure, and introducing into

the host cell one or more nucleic acids encoding an α -1,2 mannosidase activity and a GnTI activity; wherein

said method results in the production within the host cell of recombinant glycoproteins having N-glycans

attached thereto comprising GlcNAcMan_XGlcNAc₂ core structures, wherein X is 3, or 4, or 5.

Claim 2 (Previously presented): The method of claim 1, wherein the at least one glycosidase

activity is expressed from a nucleic acid molecule introduced into the host cell.

Claim 3 (Previously presented): The method of claim 2, wherein the at least one glycosidase

activity is a mannosidase activity.

Claim 4 (Canceled)

Claim 5 (Canceled)

Claim 6 (Currently Amended): The method of claim 1, further comprising the step of

expressing within the unicellular or filamentous fungus host cell one or more glycosidase enzyme activities,

selected from glycosidase and glycosyltransferase activities, to produce a GlcNAc2Man3GlcNAc2 structure.

Claim 7 (Previously presented): The method of claim 6, wherein the one or more enzyme

activities is selected from α -1,2 mannosidase, α -1,3 mannosidase and GnTII activities.

Claim 8 (Previously presented): The method of claim 1, wherein at least one diminished or

depleted enzyme is selected from the group consisting of an enzyme having dolichyl-P-Man:Man5GlcNAc2-

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PP-dolichyl alpha-1,3 mannosyltransferase activity; an enzyme having dolichyl-P-Man:Man₆GlcNAc₂-PP-dolichyl alpha-1,2 mannosyltransferase activity and an enzyme having dolichyl-P-Man:Man₇GlcNAc₂-PP-

dolichyl alpha-1,6 mannosyltransferase activity.

Claim 9 (Previously presented): The method of claim 1, wherein the diminished or depleted

enzyme has dolichyl-P-Man:Man5GlcNAc2-PP-dolichyl alpha-1,3 mannosyltransferase activity.

Claim 10 (Previously presented): The method of claim 1, wherein the enzyme is diminished

or depleted by mutation of a host cell gene encoding the enzymatic activity.

Claim 11 (Previously presented): The method of claim 10, wherein the mutation is a partial

or total deletion of a host cell gene encoding the enzymatic activity.

Claim 12 (Previously presented): The method of claim 1, wherein the attached N glycans

have seven or fewer mannose residues.

Claim 13 (Canceled)

Claim 14 (Previously presented): The method of claim 1, wherein the glycoprotein

comprises one or more sugars selected from the group consisting of galactose, GlcNAc, sialic acid, and

fucose.

Claim 15 (Previously presented): The method of claim 1, wherein the glycoprotein

comprises at least one oligosaccharide branch comprising the structure NeuNAc-Gal-GlcNAc-Man.

Claim 16 (Canceled):

Claim 17 (Currently Amended): The method of claim 1, wherein the unicellular or

filamentous fungus host cell is selected from the group consisting of Pichia pastoris, Pichia finlandica,

Pichia trehalophila, Pichia koclamae, Pichia membranaefaciens, Pichia opuntiae, Pichia thermotolerans,

Pichia salictaria, Pichia guercuum, Pichia pijperi, Pichia stiptis, Pichia methanolica, Pichia sp.,

terna sanciaria, i terna gaereaum, i terna piperi, i terna supris, i terna memanotica, i terna sp.,

Saccharomyces cerevisiae, Saccharomyces sp., Hansenula polymorpha, Kluyveromyces sp., Candida

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albicans, Aspergillus nidulans, Aspergillus niger, Aspergillus oryzae, Trichoderma reesei, Chrysosporium

lucknowense, Fusarium sp., Fusarium gramineum, Fusarium venenatum and Neurospora crassa.

Claims 18-58. (Canceled)

Claim 59 (Previously presented): A method for producing a human-like glycoprotein

in a non-human eukaryotic host cell comprising the step of diminishing or depleting from the host cell an alg

gene activity and introducing into the host cell at least one glycosidase activity.

Claim 60-65 (Canceled)